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TR/ASO/16

TEST BOOKLET  
GENERAL ABILITY TEST

Test Booklet Series

**B**

13.01.2017

(Signature of the Candidate)

(Invigilator's Signature)

Time Allowed—2 hours (Two hours)

Maximum Marks—100

**TPSC**  
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**INSTRUCTIONS**

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE SCREENING TEST, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. ENCODE CLEARLY THE TEST BOOKLET SERIES IN THE APPROPRIATE PLACE IN THE ANSWER SHEET BY BLACK BALL POINT PEN ONLY.
3. This Test Booklet contains 100 items (questions). Each question carrying 1 (one) mark only, has four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the most appropriate. In any case, choose **ONLY ONE** response for each item.
4. You have to mark all your responses by **Black Ball Point Pen only** on the separate Answer Sheet provided. See directions in the Answer Sheet.
5. All items carry equal marks.
6. Before you proceed to mark in the Answer Sheet the responses to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet.
7. After you have completed filling in responses on the Answer Sheet and the Screening Test is completed, you should handover the Answer Sheet to the Invigilator only. You are permitted to take the Test Booklet with you.
8. Sheets for rough work are appended on the Test Booklet at the end.
9. **Penalty for wrong / multiple answers :**
  - (i) For each question for which a wrong answer / multiple answer has been given by the candidate, a **½ (half)** mark will be deducted as penalty.
  - (ii) If a question is left blank, i.e. no answer is given by the candidate, there will be **no penalty** for that question.

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Four options are given against each of the following questions. Select the best / correct option from among the four options and encode in the answer sheet by using **Black Ball Point Pen** only as per example given below :

Example : The capital of India is

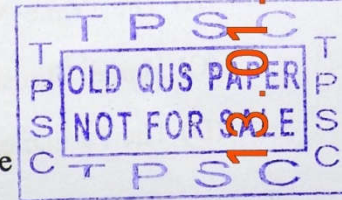
(A) Delhi

(C) Indraprastha



New Delhi

(D) None of these



1. The thermal power plant at Monarchak is in which district ?

(A) Gomati

(B) Sepahijala

(C) Unakoti

(D) South Tripura

2. Which king of Tripura introduced 'currency' for the first time ?

(A) Maharaja Ratna Manikya

(B) Maharaja Dhanya Manikya

(C) Maharaja Deva Manikya

(D) Maharaja Vijoy Manikya

3. The river 'Howrah' of Tripura originates from

(A) Tirthamukh

(B) Atharamura

(C) Baramura

(D) Jampui Hills

4. The sign of Buddhist culture is seen in Tripura at

(A) Jampui Hills

(B) Unakoti

(C) Kamalasagar

(D) Pilak

5. Which of the following states has the largest reserve of Monazite (an ore mineral of Thorium) resources ?

(A) Orissa

(B) Kerala

(C) Andhra Pradesh

(D) Tamilnadu

6. National Memorial of Dr. A.P.J. Abdul Kalam will be constructed at

(A) Sriharikota

(B) Rameswaram

(C) Shillong

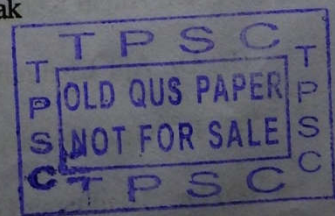
(D) New Delhi

7. The Election Commissioner of India can be removed by
- (A) The President
  - (B) The Prime Minister
  - (C) Home Minister
  - (D) The Parliament
8. The Bay of Bengal, Arabian Sea and Indian Ocean merges at
- (A) Kovalam
  - (B) Trivandram
  - (C) Kanyakumari
  - (D) Rameswaram
9. The Indian Planning Commission was set up in the year
- (A) 1948
  - (B) 1950
  - (C) 1951
  - (D) 1952
10. The day to day administration of a Union Territory in India is looked after by
- (A) Governor
  - (B) President
  - (C) Lieutenant Governor
  - (D) Council of Ministers
11. Who composed the national anthem of Bangladesh ?
- (A) Nazrul Islam
  - (B) Mohammad Iqbal
  - (C) Rabindranath Tagore
  - (D) None of them
12. World's most ancient game is
- (A) Wrestling
  - (B) Running
  - (C) Boxing
  - (D) Swimming
13. In each year, World Red Cross and Red Crescent Day is celebrated on
- (A) May 8
  - (B) May 18
  - (C) June 8
  - (D) June 18
14. The headquarters of UNO is situated at
- (A) Geneva
  - (B) Paris
  - (C) Hague
  - (D) New York

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15. Which of the following pairs is correctly matched ?
- (A) Othello — Henry Milar
  - (B) Paradise Lost — John Milton
  - (C) Robinson Crusoe — Homer
  - (D) Good Earth — Daniel Defoe
16. The book 'Life Divine' is written by
- (A) Mahatma Gandhi
  - (B) Rabindranath Tagore
  - (C) Sri Aurobindo
  - (D) Taslima Nasrin
17. Which article of our Constitution provides special status to Jammu and Kashmir ?
- (A) 120
  - (B) 356
  - (C) 368
  - (D) 370
18. When there is a President's Rule in a state, the Budget of the state is passed by
- (A) President
  - (B) Governor
  - (C) Lok Sabha
  - (D) Rajya Sabha
19. Which of the following is not a basic feature of Indian Constitution ?
- (A) Federal Government
  - (B) Presidential Government
  - (C) Parliamentary Government
  - (D) Independence of Judiciary
20. The state of emergency in India may be in force, unless extended further by the Parliament, for a maximum period of
- (A) 5 years
  - (B) 1 year
  - (C) 6 months
  - (D) 3 months
21. Bharat Heavy Electricals Limited (BHEL) has commissioned a 101 MW gas based cycle power plant at
- (A) Palatana
  - (B) Monarchak
  - (C) Srinagar
  - (D) Raghna

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22. In 2016, the Prime Ministers of India and Bangladesh along with the Chief Minister of Tripura inaugurated two historical projects between two countries via videoconference. One of these projects is
- (A) Agartala-Akhaura International Rail Link Project
- (B) India's 3rd Internet Gateway between Coxbazar in Bangladesh and Agartala (Tripura)
- (C) The Thermal Power Plant at Monarchak
- (D) None of these
23. Second Border Haat (rural market) in Tripura opens at
- (A) Srinagar
- (B) Kamalasagar
- (C) Santirbazar
- (D) Raghna
24. Who is the present Vice-Chancellor of Maharaja Bir Bikram University ?
- (A) Dr. Anjan Kumar Ghosh
- (B) Dr. Ajit Chakraborty
- (C) Dr. Gautam Basu
- (D) Dr. Jaladbaran Gangopadhyay
25. Number of Panchayet Samities in Tripura is
- (A) 33
- (B) 35
- (C) 34
- (D) 36
26. North East ASEAN Business summit, held in April, 2016 in Manipur, focussed on
- (A) Road connectivity
- (B) Trade
- (C) Tourism
- (D) All of these
27. Which of the following states established first exclusive hospital for elephants ?
- (A) Assam
- (B) Meghalaya
- (C) Manipur
- (D) Mizoram
28. In August 2016, which State Government has announced the decision to conduct polls to urban local bodies by granting 33% woman reservation ?
- (A) Manipur
- (B) Mizoram
- (C) Tripura
- (D) Nagaland

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29. In July, 2016 Railway Minister along with the Chief Minister of the state laid the foundation stone of new Railway Station in which state ?

- (A) Meghalaya
- (B) Nagaland
- (C) Manipur
- (D) Tripura

30. Name the North-Eastern State having the longest international border

- (A) Arunachal Pradesh
- (B) Nagaland
- (C) Manipur
- (D) Tripura

31. Union Government has increased maternity leave from 12 weeks to how many weeks vide Maternity Benefit (Amendment) Bill, 2016 ?

- (A) 22 weeks
- (B) 24 weeks
- (C) 26 weeks
- (D) 28 weeks

32. Organ donation day is celebrated in India every year on

- (A) 12th July
- (B) 13th July
- (C) 12th August
- (D) 13th August

33. Who has been awarded 23rd Rajiv Gandhi National Sadbhavana Award for his/her exceptional contribution in the areas of communal harmony ?

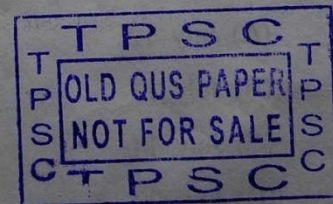
- (A) M. Balamurali Krishna
- (B) Shubha Mudgal
- (C) Abdul Rashid Khan
- (D) Sandeep Banerjee

34. Which sector has been exempted from Right to Information Act, 2005 without citing any reason for exemption ?

- (A) Strategic force command
- (B) UPSC
- (C) Public Sector Bank
- (D) National Security groups

35. Union Water Resources Minister, River Development Minister and Urban Development Minister launched Smart Ganga City Scheme in how many cities located along Ganga to set up sewage treatment plants ?

- (A) 9
- (B) 10
- (C) 11
- (D) 12



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36. Which country held first comprehensive nuclear security emergency drill code named as Fengbao - 2016 to expand the nuclear power generation ?

- (A) Japan
- (B) North Korea
- (C) China
- (D) Singapore

37. What is the theme of Olympics 2016 held in Rio De Janerio, Brazil ?

- (A) Unity and Enlightenment
- (B) Equality and Equity
- (C) Social Justice
- (D) World Peace and Environment

38. As declared by the General Assembly of United Nations, the International Friendship Day is observed on

- (A) July 30
- (B) July 31
- (C) June 30
- (D) August 30

39. Which date is observed as "Malala Day" to raise awareness and to help girls to get their right to education ?

- (A) July 12
- (B) July 13
- (C) July 14
- (D) July 22

40. The 13th India-European Union Summit was held in

- (A) Brussels, Belgium
- (B) New Delhi, India
- (C) New York, USA
- (D) Hague, Germany

41. Who invented electrophotography ?

- (A) Madam Curie
- (B) J. L. Bayard
- (C) Chester Carlson
- (D) Graham Bel

42. Which of the following is the hardest substance ?

- (A) Calcium
- (B) Glass
- (C) Lead
- (D) Silver

43. Which part of human body prepares blood ?

- (A) Bone-marrow
- (B) Heart
- (C) Brain
- (D) Lung

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44. Chemical formula of baking powder is

- (A) Calcium carbonate
- (B) Calcium bi-carbonate
- (C) Sodium carbonate
- (D) Sodium bi-carbonate

45. A man invests Rs. 9,000/- in a bank and gets Rs. 750 as interest after one year. Then the rate of interest is

- (A)  $4\frac{1}{2}\%$
- (B) 5%
- (C)  $8\frac{1}{3}\%$
- (D) 8%

46. A river flows from west to east and on the way turns left and flows in a semicircle round one hillock and then turns left at right angle. In what direction is the river finally flowing ?

- (A) East
- (B) North
- (C) South
- (D) West

47. Three of the following are alike in some way. Tailor, Footman, Butler, Equerry.

Select the one which is different.

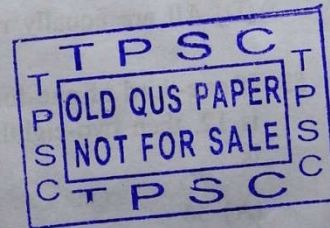
- (A) Tailor
- (B) Footman
- (C) Butler
- (D) Equerry

48. "There is no kid that does not like chocolate." What inference can be drawn from the sentence ?

- (A) Everyone who likes chocolate is a kid.
- (B) All kids like chocolate.
- (C) There are kids that do not like chocolate.
- (D) Only kids like chocolate.

49. A magician bought a rabbit for Rs. 60 and a pigeon for Rs. 70. How much is the pigeon more expensive than the rabbit in percentage ?

- (A) 10%
- (B) 12.5%
- (C) 16.66%
- (D) 17.8%



50. In an examination, Amit ranked 12th from the top and Kamal ranked 15th from the bottom in a class of 35 students. How many students are there between Amit and Kamal ?

- (A) 9
- (B) 6
- (C) 7
- (D) 8

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51. In a group of 15 people, 7 learn French, 8 learn English, while 3 learn none of these two languages. How many of them learn both the languages i.e. French and English ?
- (A) 4  
(B) 5  
(C) 3  
(D) 6
52. Ben is rich but Jim is richer ; Mike is poorer than Jim. Who is richest ?
- (A) Mike  
(B) Jim  
(C) Ben  
(D) All are equally rich
53. If one-third of one-fourth of a number is 12, then two-eighth of that number is
- (A) 36  
(B) 24  
(C) 8  
(D) 4
54. In the four groups given below, which one is different from others ?
- (A) Bed, ward, hospital  
(B) Atmosphere, air, oxygen  
(C) Copper, zinc, iron  
(D) Book, page, paragraph
55. Merry walks 100 meter south, then 120 meter west and 20 meter south again. She then walks 40 meter east before walking 60 meter north again. How far from her starting position is she now ?
- (A) 140 meter  
(B) 120 meter  
(C) 80 meter  
(D) 100 meter
56. Rearrange the letters in the word 'rite' in order to make a new word. Which sentence below best describes the new word ?
- (A) To grow weary  
(B) Of emotional nature  
(C) Person of lower status  
(D) Pride in one-self
57. Find out the missing number (?) in the following series :  
1, 1, 2, 6, 24, ?, 720
- (A) 100  
(B) 120  
(C) 180  
(D) 216
58. A father is 30 years older than his son. However, he will be three times as old as his son after 5 years. The present age of the son is
- (A) 12 years  
(B) 15 years  
(C) 10 years  
(D) 8 years

9. The waiters in a restaurant have agreed on the following rules for their roasters :

1. When Daniel works, Simon works too
2. When Simon works, Eve is not
3. When Eve does not work, Katherine does not work too.

Which of the following conclusion is derived from these informations ?

- (A) If Simon works, Daniel works too
- (B) If Daniel works, Katherine does not
- (C) If Simon does not work, Katherine does not
- (D) If Katherine does not work, Simon does not work too.

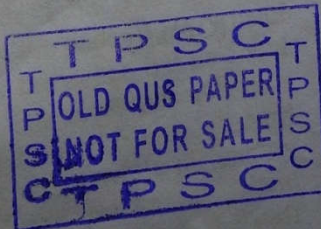
60. If  $20\%$  of  $150 = x$ , what is  $10\%$  of  $5x$  ?

- (A) 15
- (B) 25
- (C) 30
- (D) 5

Fill up the blanks with correct options :

61. I have to complete this work in \_\_\_\_\_ hour's time.

- (A) a
- (B) an
- (C) the
- (D) no article



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62. Please fill this pen with \_\_\_\_\_ ink.

- (A) a
- (B) an
- (C) the
- (D) no article

63. Enter \_\_\_\_\_ the hall and sit in the first room to your right.

- (A) into
- (B) in
- (C) to
- (D) no preposition

64. Kolkata can be compared \_\_\_\_\_ Mumbai.

- (A) in
- (B) against
- (C) by
- (D) to

65. The teacher was angry \_\_\_\_\_ he did not scold the boys.

- (A) still
- (B) unless
- (C) while
- (D) or

66. He decided to set out \_\_\_\_\_ it was late.

- (A) though
- (B) although
- (C) but
- (D) all of these

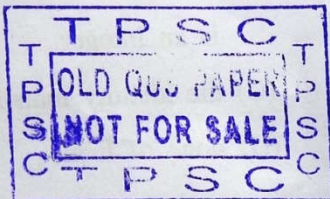
67. Where shall I place my computer ? The files have — all the space on the desk.
- (A) taken to  
(B) taken after  
(C) taken up  
(D) taken over
68. The effect of anaesthesia has — and the sick patient is now awake.
- (A) worn out  
(B) brushed up  
(C) worn off  
(D) made up
69. Disease is related to pathology, in the same way planet is related to —.
- (A) sun  
(B) satellite  
(C) astrology  
(d) astronomy
70. The doctor told him —.
- (A) not to smoke  
(B) to not smoke  
(C) do not smoke  
(D) not smoke
71. A new sports centre — in our town.
- (A) is being built  
(B) are being built  
(C) being built  
(D) built
72. The boy asked, “— with my friends ?”
- (A) If I could play  
(B) If I can play  
(C) Can I play  
(D) I played
- Directions for question Nos. 73 and 74.  
Replace the underlined words in the sentences with synonym using options.
73. The industrious worker was promoted to the position of a supervisor.
- (A) intelligent  
(B) diligent  
(C) popular  
(D) generous
74. There was ample food for everyone at the party.
- (A) sufficient  
(B) delicious  
(C) tasty  
(D) surplus

Directions for question Nos. 75 and 76.

In each of the following sentences, the word in CAPITALS has 3 missing letters. Which option would complete the word ?

75. He is so COMENT that he can do this within no time.

- (A) SET  
(B) NET  
(C) TEN  
(D) PET



76. The OOR gave a good, worthy speech.

- (A) CAT  
(B) DOG  
(C) RAT  
(D) FIG

Directions for question Nos. 77 to 80.

Read the following passage carefully and using the options provided, answer the questions that follow :

Prem looked at his examination results slip with a heavy heart. He knew that he had disappointed his mother. One day, Prem was asked to come to the staff room. To his surprise, there was nobody there. But he suddenly noticed something jutting out of the record book. The words "Final Semester Test" were written on the paper. Prem's hand reached out for the paper, but he could not look at it. His mother had always emphasised that, the labour of hard work was rewarding while dishonesty would only bring misfortune. Prem quickly turned away to leave the staff

room. He was shocked to see his history teacher observing him. She was pleased that Prem had decided not to cheat. She offered to tutor him after school.

Prem scored 2 A's and 3 B's in the final semester. His mother was very proud of him. Prem was glad that he had listened to his mother's advice.

77. In what way had Prem disappointed his mother ?

- (A) By not writing in the examination.  
(B) By not showing the examination results slip to his mother.  
(C) By not studying for the examination.  
(D) By not telling his mother about what happened in the staff room.

78. Which word is similar in meaning to "heavy heart" as used in this passage ?

- (A) Surprised  
(B) Unhappy  
(C) Shocked  
(D) Angry

79. Which of the following could be the most appropriate theme of the passage ?

- (A) Self-help is the best help.  
(B) A friend in need is a friend indeed.  
(C) Honesty is the best policy.  
(D) A bird in the hand is worth two in the bush.

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80. Why did not Prem take the final semester test paper though the paper was within his reach ?

- (A) The paper was not for his examination.
- (B) The teacher was observing him.
- (C) He could not disobey his teacher.
- (D) He could not go against his mother's wishes.

81. Choose the option which is not correct :

- (A) An orthogonal matrix is singular.
- (B) The inverse of an orthogonal matrix is orthogonal.
- (C) Identity matrix is an orthogonal matrix.
- (D) The transpose of an orthogonal matrix is orthogonal.

82. The remainder by dividing  $x^4 - 1$  synthetically by  $x + 2$  is

- (A) 2
- (B) 15
- (C) 8
- (D) 0

83. Let  $f : Q \rightarrow Q$  be defined by  $f(x) = 2x + 3$ ,  $x \in Q$ ,  $Q$  be the set of rational number. Then  $f$  is

- (A) one - one mapping
- (B) constant mapping
- (C) identity mapping
- (D) both (B) and (C)

84. Let  $M$  be the set of all  $m \times n$  matrices having their elements as integers. Then the identity with respect to addition of matrices is

- (A) null matrix

(B) the matrix of the form  $\begin{bmatrix} 0 & a \\ a & a \end{bmatrix}$ ,  $a$

is an integer

- (C) the identity matrix
- (D) none of these

85. The direction cosines of the straight line joining the points  $(3, 4, -1)$  and  $(1, 7, -7)$  are

- (A)  $\left(\frac{2}{7}, \frac{3}{7}, \frac{-6}{7}\right)$

(B)  $(2, 3, -6)$

- (C)  $\left(\frac{-2}{7}, \frac{3}{7}, \frac{-6}{7}\right)$

(D)  $(-2, 3, -6)$

86. The value of  $m$  for which the line  $\frac{x+1}{3} = \frac{y-2}{m} = \frac{z+3}{-2}$  is parallel to the plane  $x - 3y + 6z + 7 = 0$  is

- (A) - 4
- (B) - 3
- (C) - 2
- (D) - 1

87. The unit vector along  $(\vec{a} - \vec{b})$  where  $\vec{a} = 3\hat{i} - 2\hat{j} + \hat{k}$ ,  $\vec{b} = 2\hat{i} - \hat{j} + \hat{k}$  is

- (A)  $\frac{1}{\sqrt{2}} (\hat{i} + \hat{j})$
- (B)  $\frac{1}{\sqrt{2}} (-\hat{i} + \hat{j})$
- (C)  $\frac{1}{\sqrt{2}} (\hat{i} - \hat{j})$
- (D)  $(\hat{i} - \hat{j})$

88. If  $f(x) = 1$ ,  $x < 0$

$$= 1 + \sin x, 0 \leq x < \frac{\pi}{2}$$

then at  $x = 0$ ,  $f'(x)$  is

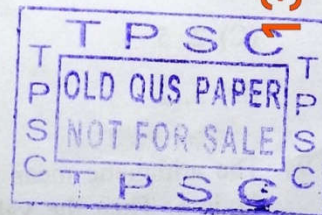
- (A) 1
- (B) 0
- (C) infinite
- (D) none of these

89. Lagrange's Mean Value theorem reduces to Rolle's theorem if for  $f(x)$  defined in  $[a, b]$ ,

- (A)  $f(a) = f(b)$
- (B)  $f'(c) = 0$ ,  $a < c < b$
- (C)  $f(c) = 0$ ,  $a < c < b$
- (D)  $f(x)$  is increasing in  $[a, b]$

90. The value of  $\Gamma\left(\frac{1}{3}\right) \Gamma\left(\frac{2}{3}\right)$ , (when  $\Gamma(n)$  means Gamma function) is

- (A)  $\frac{\sqrt{3}}{2} \pi$
- (B)  $\frac{2}{\sqrt{3}} \pi$
- (C)  $2\pi$
- (D)  $\frac{\pi}{2}$



91. If  $f(x, y) = \tan^{-1}\left(\frac{y}{x}\right) + \sin^{-1}\left(\frac{x}{y}\right)$ , then

$f(x, y)$  is

- (A) not a homogeneous function
- (B) a homogeneous function of degree 1
- (C) a homogeneous function of degree 0
- (D) none of these

92. The absolute error of  $\frac{1}{9}$  (upto five decimal places) is

- (A) 0.01001
- (B) 0.00011
- (C) 0.0001
- (D) 0.00001

93. The order and degree of the differential equation  $\frac{d^2y}{dx^2} + 4 \left( \frac{dy}{dx} \right)^5 + 10y = 0$  are respectively
- (A) 1, 2  
(B) 2, 1  
(C) 2, 5  
(D) 5, 2
94. The arithmetic mean of 1, 3, 5, 6, x, 11 is 6. Then the value of x is
- (A) 8  
(B) 9  
(C) 10  
(D) 11
95. If for a distribution, Mean = 22, Median = 20, then the value of Mode is
- (A) 16  
(B) 17  
(C) 20  
(D) 22
96. The range of the following data : 20, 15, 10, 8, 17, 18, 19, 4, 3, 2 is
- (A) 10  
(B) 12  
(C) 14  
(D) 18
97. The tangents at origin to the curve  $x^3 + y^3 = 3axy$  are
- (A) x axis, y axis  
(B) x axis only  
(C) y axis only  
(D)  $x + y = 0$
98. For a certain distribution, the mean and standard deviations are 148 gm and 17.4 gm respectively. Then the coefficient of variation will be
- (A) 8.5  
(B) 12  
(C) 0.12  
(D) 0.085
99. The regression coefficient concerning two variables x and y are  $b_{yx} = -1$ ,  $b_{xy} = -0.25$ . Then the correlation coefficient, r is given by
- (A)  $\pm 0.5$   
(B) 0.5  
(C) - 0.5  
(D) none of these
100. The first two moments of a distribution about the value of 5 of the variables are 2 and 20. Then the variance will be
- (A) 18  
(B) 16  
(C) 396  
(D) 398.

*(Space for rough work)*

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